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OKC - 2266

Copy\_\_of 5

14 September 1961

MEMORANDUM FOR THE RECORD

SUBJECT : Trip Report to Lockheed

1. On 8 September, a meeting was held at Lockheed to discuss the communication, navigation, and rendezvous equipment to be employed in OXCART. Present at the meeting were [redacted] of Lockheed, and Colonel Bearli, [redacted] from DPD.

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2. A document detailing the refueling and rendezvous problem as understood by Lockheed was shown to all present. None of the DPD representatives present had ever seen the report previous to this meeting. The report outlined procedures and techniques considered useful and satisfactory for accomplishing the rendezvous. The report contained several assumptions or conclusions that can not be considered 100% correct. The first such assumption was that the refueling would always be accomplished in broad daylight with practically unlimited visibility. This condition might prevail much of the time but certainly not all of the time, hence the dependence on visual sighting for extended range contact is not valid.

3. The report did not take into account the fact that the A-12 must have rendezvous information prior to deceleration and start of descent. In fact, the report did not even consider the requirement for range information, entire reliance being placed upon azimuth information. Lockheed considered that this azimuth information would be secured in two ways. [redacted]

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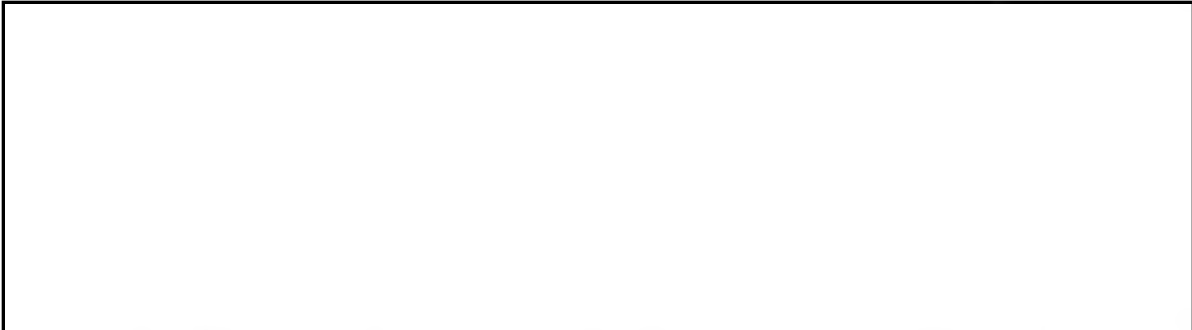
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25X1D

4. A suggested scheme for providing range and azimuth information to the A-12 pilot was outlined to the Lockheed people. They agreed that the scheme could provide the needed data but the feeling was conveyed that the HIR (not invented here) factor will have to be reckoned with.

5. A list of recommended Navigation-Communication facilities as proposed by Operations was discussed with Lockheed. This list is recapitulated here in order of priority:



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(d) TACAN

(e) IFF/SIF

(f) ADP

Lockheed agreed to investigate the feasibility of providing the above capabilities in the OXCART vehicle. They raised many questions, particularly regarding the type of HF antenna that could be used. They are having their antenna people check all types and sources of


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antennas in being or under development. A report from Lockheed on the above investigations will be submitted at an early date.

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